REMOTE SYSTEM INTEGRITY VERIFICATION

Abstract of the Disclosure

The integrity of a remote communication unit (14) in a communication system is verified by comparing a hash value generated within the remote unit (14) to a hash value generated within a local unit (24). An interrogation message is generated within an interrogating entity (10) that includes a random seed value, memory range information identifying a memory range within the remote unit that is to be hashed, and position information identifying a position at which the random seed value is to be located within a data stream generated within the remote unit (14). The interrogation message is then delivered to the remote unit (14) which then performs a hashing operation based upon the parameters within the interrogation message to generate a hash value. The hash value is then returned to the interrogating entity (10) for comparison with a control value.